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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/777,802	02/12/2004	Sheng-Ping (Samuel) Zhong	03-235	5369
27774 7590 05/13/2009 MAYER & WILLIAMS PC 251 NORTH AVENUE WEST			EXAMINER	
			AHMED, HASAN SYED	
2ND FLOOR WESTFIELD,	NJ 07090		ART UNIT	PAPER NUMBER
			1615	
			MAIL DATE	DELIVERY MODE
			05/13/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/777.802 ZHONG, SHENG-PING (SAMUEL) Office Action Summary Art Unit Examiner HASAN S. AHMED 1615 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 25 February 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-28 is/are pending in the application. 4a) Of the above claim(s) 4-16.20.24 and 26 is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1-3,17,19,21-23,25,27 and 28 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Information Disclosure Statement(s) (PTO/SB/08)
 Paper No(s)/Mail Date ______.

Paper No(s)/Mail Date.

6) Other:

5) Notice of Informal Patent Application

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DETAILED ACTION

 Receipt is acknowledged of applicants' amendment and response, which were filed on 25 February 2009.

Applicants' arguments regarding the 35 USC 102 and 103 rejections of the previous
 Office action are persuasive. As such, said rejections have been withdrawn and the
 arguments are moot in view of the new grounds of rejection.

Claim Objections

1. Claim 17 is objected to because of the following informality: The status identifier of claim 17 indicates that it is "Withdrawn and Currently Amended". However, this claim was not withdrawn previously and should be under examination. In order to expedite prosecution, claim 17 will be examined in this Office action. Appropriate correction is required.

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Claims 19, 21, and 22 are objected to because of the following informality: The
claims depend from a cancelled claim, claim 18. In order to expedite prosecution,
claims 19, 21, and 22 will be examined in this Office action. Appropriate correction is
required.

* * * * *

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

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(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 1, 2, 19, 21-23, 25, 27, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 2003/026532 ("Weber").

Weber discloses a medical article comprising a release region (see page 2, lines 22-28), further comprising:

- the implantable or insertable medical device of instant claim 1 (see page 20, lines 16-21);
- the polymeric carrier comprising a first polymer of instant claim 1 (see page 8, lines 5-15);
- the drug loaded nanoparticles dispersed within the polymeric carrier of instant claim 1 (see page 5, line 18; page 10, line 27; page 11, lines 14-16);
- the layered silicate material (phyllosilicate) of instant claim 1 (see page 9, line
 4):
- the hydrophilic therapeutic agent of instant claim 2 (see page 11, line 17 page 12, line 6; e.g. acetylsalicylic acid);
- the hydrophobic polymer of instant claim 2 (see page 8, lines 5-15; e.g. polyolefin block copolymer);
- the disposal over at least a portion of the medical article substrate of instant claim 17 (see page 10, lines 24-26; figure 1);
- the coronary or peripheral vasculature implantable or insertable medical device of instant claim 19 (see page 20, lines 16-21);

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- the catheter of instant claim 21 (see page 20, line 19);
- the antithrombotic agent of instant claim 22 (see page 11, line 18);
- the smectite silicate material of instant claim 23 (see page 9, line 4);
- the method of instant claim 25 (see page 6, lines 3-15);
- the overlapping cross-sectional length of instant claim 27 (see page 8, line 20); and
- the olefin polymer of instant claim 28 (see page 8, lines 5-15).

Weber does not provide an explicit example or embodiment of an implantable or insertable medical device comprising a release region, in turn comprising a polymeric carrier comprising a first polymer and drug loaded nanoparticles dispersed within said polymeric carrier, said drug loaded nanoparticles comprising a layered silicate material and a first therapeutic agent. However, based on the teachings cited above, Weber explicitly teaches each of the structural features being claimed in the same configuration being claimed, i.e. nanoparticles comprising a therapeutic agent dispersed in a polymer which in turn is coated onto an implantable or insertable medical devise. As such, Weber reads on the instant application, as claimed.

Weber explains that the disclosed device is beneficial because it provides targeted and controlled delivery of therapeutic agents to a desired treatment site (see page 11, lines 5-6).

Weber does not explicitly disclose the placement of the therapeutic agent in the spaces between adjacent layers of the silicate material of each silicate particle to form a depot. However, Weber teaches nanoparticles made of the same material being

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instantly claimed, *i.e.*, smectite silicate (see page 9, line 4), and a hydrophilic therapeutic agent (see page 11, line 17 – page 12, line 6; e.g. acetylsalicylic acid) associated with said nanoparticles (see, e.g., page 11, lines 14-15). The placement of a hydrophilic therapeutic agent in the spaces between the adjacent layers of the silicate material is a property of interaction between the silicate and the therapeutic agent. Properties are the same when the structure and composition are the same. *In re Fitzgerald*. 205 USPQ 594.

Weber does not disclose the spacing between adjacent layers within the silicate particles recited in instant claim 27. However, Weber teaches use of the same silicate as the instant application, *i.e.*, smectite silicate (see page 9, line 4), and spacing between adjacent layers is an inherent feature of the silicate.

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to disclose an implantable or insertable medical device comprising a polymeric carrier comprising a first polymer and drug loaded nanoparticles dispersed within said polymeric carrier, said drug loaded nanoparticles comprising a layered silicate material and a first therapeutic agent, as taught by Weber. One of ordinary skill in the art at the time the invention was made would have been motivated to make such a composition because it provides targeted and controlled delivery of therapeutic agents to a desired treatment site, as explained by Weber (see above).

....

 Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over WO 2003/026532 ("Weber") in view of U.S. Patent No. 6,743,463 ("Weber II").

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Weber teaches a medical article comprising a release region (see above). The disclosed article comprises the polyolefin-polyvinylaromatic block copolymer of instant claim 3 (see page 8, lines 5-15).

Weber explains that the disclosed device is beneficial because it provides targeted and controlled delivery of therapeutic agents to a desired treatment site (see page 11, lines 5-6).

Weber differs from the instant application in that it does not teach halofuginone as a therapeutic agent.

Weber II teaches an insertable medical device, such as a stent (see col. 2, line 27). The device may be coated with a nanocomposite material comprising nanoparticles of clay (see col. 10, line 19) and with a biologically active material (see col. 10, lines 51-52) such as halofuginone (see col. 12, line 7). Weber II teaches that nanoparticles of biologically active materials and non-active materials are useful for the disclosed coating formulation (see col. 13, lines 3-4).

It would have been obvious to a person of ordinary skill in the art at the time the invention was made to disclose a vascular medical device comprising a release region, further comprising a polymeric carrier and nanoparticles comprising halofuginone, as taught by Weber in view of Weber II. One of ordinary skill in the art at the time the invention was made would have been motivated to make such a composition because it provides targeted and controlled delivery of therapeutic agents to a desired treatment site, as explained by Weber (see above).

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Correspondence

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to HASAN S. AHMED whose telephone number is

(571)272-4792. The examiner can normally be reached on 9am - 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael P. Woodward can be reached on (571)272-8373. The fax phone

number for the organization where this application or proceeding is assigned is 571-

273-8300.

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USPTO Customer Service Representative or access to the automated information

system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/H. S. A./

Examiner, Art Unit 1615

/Humera N. Sheikh/

Primary Examiner, Art Unit 1615